

ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

MN 51 (Snelling Ave) & Roselawn Ave
 City: Roseville
 data by: Spack Solutions
 TURN MOVEMENT COUNT

File Name : MN 51 (Snelling Ave) & Roselawn Ave_2021
 Site Code : 3779746
 Start Date : 10/19/2021
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	MN 51 (Snelling Ave) Southbound					Roselawn Ave Westbound					MN 51 (Snelling Ave) Northbound					Roselawn Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
06:00 AM	2	104	1	1	108	2	3	2	0	7	1	69	0	1	71	0	0	2	1	3	189
06:15 AM	0	171	2	0	173	0	5	4	0	9	2	88	0	0	90	0	2	3	0	5	277
06:30 AM	2	193	3	0	198	0	3	5	0	8	0	122	0	2	124	0	0	0	0	0	330
06:45 AM	2	245	1	0	248	1	7	11	0	19	1	108	2	1	112	2	2	4	0	8	387
Total	6	713	7	1	727	3	18	22	0	43	4	387	2	4	397	2	4	9	1	16	1183
07:00 AM	0	227	2	0	229	1	2	8	0	11	2	123	3	0	128	1	4	6	0	11	379
07:15 AM	3	255	2	0	260	1	14	11	0	26	1	189	2	0	192	1	7	8	0	16	494
07:30 AM	2	273	4	0	279	6	12	12	0	30	3	216	4	0	223	0	9	13	0	22	554
07:45 AM	7	279	1	0	287	3	6	11	0	20	1	222	3	1	227	3	12	6	1	22	556
Total	12	1034	9	0	1055	11	34	42	0	87	7	750	12	1	770	5	32	33	1	71	1983
08:00 AM	4	217	2	0	223	7	14	11	0	32	1	198	2	0	201	5	5	4	0	14	470
08:15 AM	5	284	4	0	293	6	13	8	0	27	2	201	0	0	203	2	8	6	0	16	539
08:30 AM	6	225	5	0	236	2	6	7	0	15	2	218	2	0	222	3	4	9	0	16	489
08:45 AM	1	260	4	1	266	4	11	4	0	19	2	225	2	5	234	2	7	6	0	15	534
Total	16	986	15	1	1018	19	44	30	0	93	7	842	6	5	860	12	24	25	0	61	2032
09:00 AM	2	198	3	0	203	5	7	11	0	23	4	194	6	1	205	3	7	3	0	13	444
09:15 AM	7	202	4	1	214	2	8	13	1	24	4	169	2	0	175	3	6	4	0	13	426
09:30 AM	0	193	7	0	200	3	5	8	0	16	4	194	4	0	202	1	8	3	0	12	430
09:45 AM	7	230	7	0	244	5	10	7	0	22	6	222	1	3	232	6	12	11	0	29	527
Total	16	823	21	1	861	15	30	39	1	85	18	779	13	4	814	13	33	21	0	67	1827
10:00 AM	0	196	3	0	199	1	10	13	0	24	2	177	9	1	189	2	8	9	0	19	431
10:15 AM	6	171	6	0	183	2	11	11	1	25	1	180	8	2	191	3	9	2	0	14	413
10:30 AM	1	197	5	0	203	2	9	12	0	23	0	202	2	0	204	2	5	6	0	13	443
10:45 AM	2	188	8	0	198	2	9	8	0	19	3	192	6	0	201	7	15	4	0	26	444
Total	9	752	22	0	783	7	39	44	1	91	6	751	25	3	785	14	37	21	0	72	1731
11:00 AM	2	186	1	0	189	1	11	7	0	19	0	251	4	1	256	3	11	9	0	23	487
11:15 AM	7	213	8	0	228	6	8	15	0	29	5	286	1	0	292	5	4	11	0	20	569
11:30 AM	13	231	4	0	248	4	12	6	0	22	1	286	4	0	291	7	8	7	0	22	583
11:45 AM	2	213	5	0	220	4	5	8	0	17	5	293	5	1	304	1	7	9	0	17	558
Total	24	843	18	0	885	15	36	36	0	87	11	1116	14	2	1143	16	30	36	0	82	2197
12:00 PM	3	255	8	1	267	4	7	9	1	21	3	306	0	1	310	5	12	8	0	25	623
12:15 PM	8	257	8	0	273	1	14	7	0	22	2	273	3	0	278	8	8	7	0	23	596
12:30 PM	6	308	9	1	324	2	8	12	1	23	2	257	6	0	265	5	9	13	0	27	639
12:45 PM	7	264	9	0	280	2	11	6	0	19	6	256	5	0	267	8	6	9	0	23	589
Total	24	1084	34	2	1144	9	40	34	2	85	13	1092	14	1	1120	26	35	37	0	98	2447
01:00 PM	6	238	7	0	251	3	10	8	0	21	2	233	0	0	235	3	11	8	0	22	529
01:15 PM	5	251	4	0	260	5	9	7	0	21	1	252	3	1	257	2	7	8	0	17	555
01:30 PM	7	250	4	0	261	1	6	14	0	21	3	282	5	1	291	1	12	4	0	17	590
01:45 PM	4	224	4	0	232	3	2	9	0	14	1	276	7	0	284	3	11	10	0	24	554
Total	22	963	19	0	1004	12	27	38	0	77	7	1043	15	2	1067	9	41	30	0	80	2228
02:00 PM	7	245	6	0	258	3	8	10	0	21	2	351	7	1	361	2	10	3	0	15	655
02:15 PM	9	246	3	0	258	2	10	8	0	20	1	299	6	0	306	4	15	6	0	25	609
02:30 PM	4	261	2	0	267	4	8	5	0	17	2	340	5	2	349	4	11	10	0	25	658
02:45 PM	3	246	5	1	255	7	11	9	0	27	4	330	4	3	341	3	15	11	0	29	652
Total	23	998	16	1	1038	16	37	32	0	85	9	1320	22	6	1357	13	51	30	0	94	2574
03:00 PM	9	268	8	0	285	5	9	9	0	23	3	387	6	0	396	9	17	13	0	39	743

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 TURN MOVEMENT COUNT

File Name : MN 51 (Snelling Ave) & Roselawn Ave_2021
 Site Code : 3779746
 Start Date : 10/19/2021
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	MN 51 (Snelling Ave) Southbound					Roselawn Ave Westbound					MN 51 (Snelling Ave) Northbound					Roselawn Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
03:15 PM	9	260	5	0	274	0	5	9	0	14	1	399	9	2	411	2	15	10	0	27	726
03:30 PM	10	248	3	1	262	4	17	12	0	33	3	418	3	3	427	6	19	9	0	34	756
03:45 PM	8	250	2	2	262	0	13	15	0	28	3	421	11	1	436	1	15	9	0	25	751
Total	36	1026	18	3	1083	9	44	45	0	98	10	1625	29	6	1670	18	66	41	0	125	2976
04:00 PM	11	266	6	1	284	6	14	12	0	32	2	450	4	4	460	0	22	17	0	39	815
04:15 PM	7	240	2	3	252	2	10	18	0	30	4	374	13	1	392	10	27	19	1	57	731
04:30 PM	8	292	6	0	306	3	12	9	0	24	1	405	10	0	416	8	32	20	0	60	806
04:45 PM	5	333	5	0	343	4	14	10	0	28	3	452	12	2	469	7	18	15	0	40	880
Total	31	1131	19	4	1185	15	50	49	0	114	10	1681	39	7	1737	25	99	71	1	196	3232
05:00 PM	9	317	6	1	333	5	9	7	0	21	5	436	12	1	454	7	31	19	0	57	865
05:15 PM	12	297	10	0	319	3	13	12	0	28	10	413	3	2	428	5	23	12	0	40	815
05:30 PM	9	300	10	0	319	2	8	8	0	18	4	308	9	3	324	4	22	15	0	41	702
05:45 PM	2	267	7	0	276	5	9	10	0	24	6	324	7	0	337	4	6	13	1	24	661
Total	32	1181	33	1	1247	15	39	37	0	91	25	1481	31	6	1543	20	82	59	1	162	3043
06:00 PM	5	241	11	0	257	2	9	12	1	24	2	282	9	2	295	5	11	8	1	25	601
06:15 PM	6	230	6	0	242	2	6	12	0	20	2	308	8	3	321	6	8	12	0	26	609
06:30 PM	8	253	4	0	265	3	6	12	0	21	7	254	5	0	266	9	7	12	0	28	580
06:45 PM	8	251	8	0	267	2	6	18	0	26	1	225	4	1	231	4	14	10	0	28	552
Total	27	975	29	0	1031	9	27	54	1	91	12	1069	26	6	1113	24	40	42	1	107	2342
Grand Total	278	12509	260	14	13061	155	465	502	5	1127	139	13936	248	53	14376	197	574	455	5	1231	29795
Apprch %	2.1	95.8	2	0.1		13.8	41.3	44.5	0.4		1	96.9	1.7	0.4		16	46.6	37	0.4		
Total %	0.9	42	0.9	0	43.8	0.5	1.6	1.7	0	3.8	0.5	46.8	0.8	0.2	48.2	0.7	1.9	1.5	0	4.1	
Cars	275	12011	258	8	12552	150	453	488	4	1095	135	13429	242	36	13842	196	566	451	5	1218	28707
% Cars	98.9	96	99.2	57.1	96.1	96.8	97.4	97.2	80	97.2	97.1	96.4	97.6	67.9	96.3	99.5	98.6	99.1	100	98.9	96.3
Trucks	3	498	2	6	509	5	12	14	1	32	4	507	6	17	534	1	8	4	0	13	1088
% Trucks	1.1	4	0.8	42.9	3.9	3.2	2.6	2.8	20	2.8	2.9	3.6	2.4	32.1	3.7	0.5	1.4	0.9	0	1.1	3.7

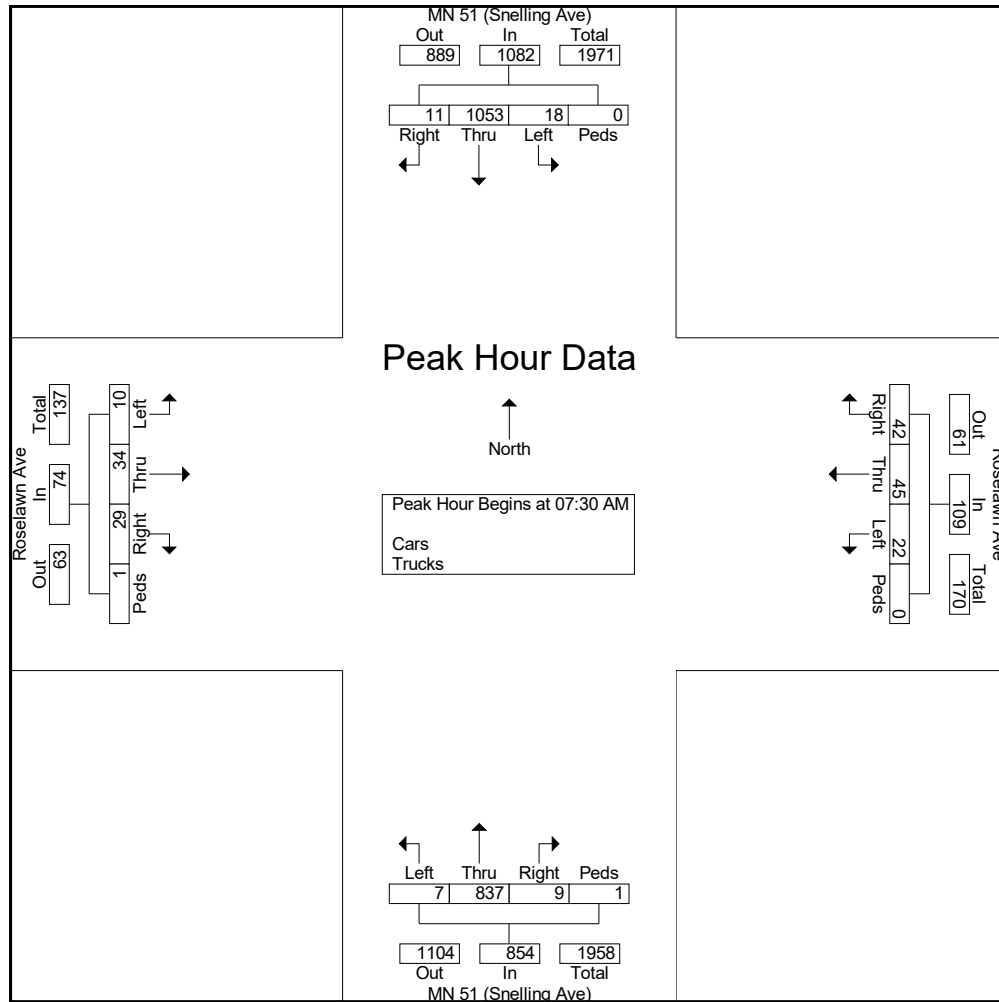
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Start Time	MN 51 (Snelling Ave) Southbound					Roselawn Ave Westbound					MN 51 (Snelling Ave) Northbound					Roselawn Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	2	273	4	0	279	6	12	12	0	30	3	216	4	0	223	0	9	13	0	22	554
07:45 AM	7	279	1	0	287	3	6	11	0	20	1	222	3	1	227	3	12	6	1	22	556
08:00 AM	4	217	2	0	223	7	14	11	0	32	1	198	2	0	201	5	5	4	0	14	470
08:15 AM	5	284	4	0	293	6	13	8	0	27	2	201	0	0	203	2	8	6	0	16	539
Total Volume	18	1053	11	0	1082	22	45	42	0	109	7	837	9	1	854	10	34	29	1	74	2119
% App. Total	1.7	97.3	1	0		20.2	41.3	38.5	0		0.8	98	1.1	0.1		13.5	45.9	39.2	1.4		
PHF	.643	.927	.688	.000	.923	.786	.804	.875	.000	.852	.583	.943	.563	.250	.941	.500	.708	.558	.250	.841	.953



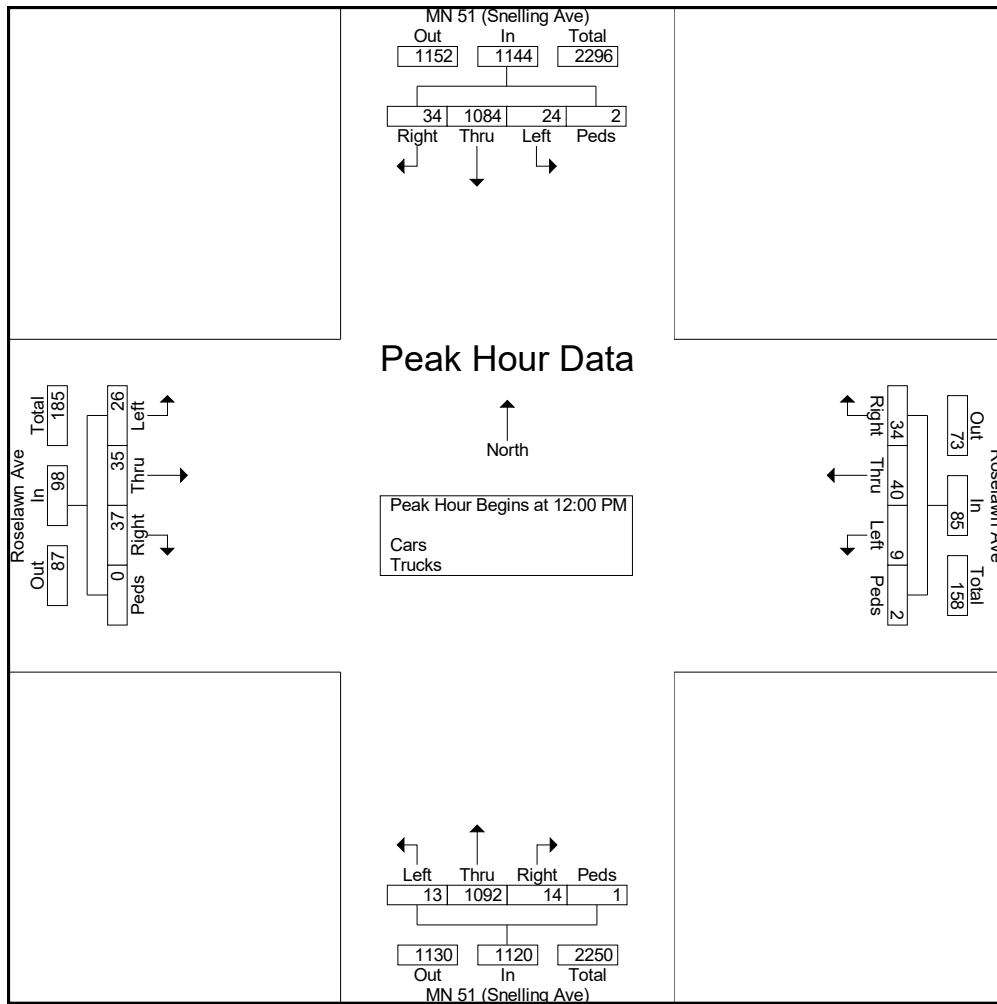
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 Start Date : 10/19/2021
 Page No : 4

Start Time	MN 51 (Snelling Ave) Southbound					Roselawn Ave Westbound					MN 51 (Snelling Ave) Northbound					Roselawn Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:00 PM																					
12:00 PM	3	255	8	1	267	4	7	9	1	21	3	306	0	1	310	5	12	8	0	25	623
12:15 PM	8	257	8	0	273	1	14	7	0	22	2	273	3	0	278	8	8	7	0	23	596
12:30 PM	6	308	9	1	324	2	8	12	1	23	2	257	6	0	265	5	9	13	0	27	639
12:45 PM	7	264	9	0	280	2	11	6	0	19	6	256	5	0	267	8	6	9	0	23	589
Total Volume	24	1084	34	2	1144	9	40	34	2	85	13	1092	14	1	1120	26	35	37	0	98	2447
% App. Total	2.1	94.8	3	0.2		10.6	47.1	40	2.4		1.2	97.5	1.2	0.1		26.5	35.7	37.8	0		
PHF	.750	.880	.944	.500	.883	.563	.714	.708	.500	.924	.542	.892	.583	.250	.903	.813	.729	.712	.000	.907	.957



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File Name : MN 51 (Snelling Ave) & Roselawn Ave_2021
 Site Code : 3779746
 Start Date : 10/19/2021
 Page No : 5

Start Time	MN 51 (Snelling Ave) Southbound					Roselawn Ave Westbound					MN 51 (Snelling Ave) Northbound					Roselawn Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	8	292	6	0	306	3	12	9	0	24	1	405	10	0	416	8	32	20	0	60	806
04:45 PM	5	333	5	0	343	4	14	10	0	28	3	452	12	2	469	7	18	15	0	40	880
05:00 PM	9	317	6	1	333	5	9	7	0	21	5	436	12	1	454	7	31	19	0	57	865
05:15 PM	12	297	10	0	319	3	13	12	0	28	10	413	3	2	428	5	23	12	0	40	815
Total Volume	34	1239	27	1	1301	15	48	38	0	101	19	1706	37	5	1767	27	104	66	0	197	3366
% App. Total	2.6	95.2	2.1	0.1		14.9	47.5	37.6	0		1.1	96.5	2.1	0.3		13.7	52.8	33.5	0		
PHF	.708	.930	.675	.250	.948	.750	.857	.792	.000	.902	.475	.944	.771	.625	.942	.844	.813	.825	.000	.821	.956

